

SAF-RC-030
Remaining Sites Confirmation Sampling -
Other Solid
FINAL DATA PACKAGE

RECEIVED
DEC 17 2007
EDMC

COMPLETE COPY OF DATA PACKAGE TO:

Jeanette Duncan

H4-21

KW 12/10/07
INITIAL/DATE

COMMENTS:

SDG 07-A-6907

SAF-RC-030

Rad only

☒ Chem only

Rad & Chem

☒ Complete

Partial

Waste Site: 100-F-48



12/7/07
Page 1 of 3

SUBMITTED TO:

Joan Kessner
Washington Closure Hanford
2620 Fermi Avenue, MSIN H4-21
Richland, WA 99354



REFERENCE DATA:

| | |
|----------------------|---------------------------|
| Client Sample No.: | J16365 through J163H3 |
| P.O. No.: | Not Available |
| Sample Location: | 100-F-48 |
| Sample Type: | Bulk |
| Method Reference: | EPA-600/R-93/116 |
| DCL Set ID No.: | 07-A-6907 |
| DCL Sample ID No.: | 07-40550 through 07-40556 |
| Sample Receipt Date: | 12/6/07 |
| Analysis Date: | 12/7/07 |

We certify that the following samples were prepared and analyzed by Polarized Light Microscopy for asbestos and other fibrous constituents using EPA-600/R-93/116. The samples were acceptable upon receipt except where noted. The samples were examined under a stereomicroscope in a laboratory fume hood for general composition and phase separation. If needed, portions of the sample were removed and ground with a mortar and pestle before being mounted on a glass microscope slide. Mountings of representative portions of the material are prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the materials analyzed and are summarized on the attached bulk asbestos analysis data sheets. DataChem Laboratories will dispose of all bulk samples after 60 days unless other arrangements are made.


Shawn Smythe
Analyst


for Anna Marie Ristich
Reviewer

*Floor tiles, decorative paints, joint compounds, and cement materials require additional treatment in order to evaluate the concentration of small asbestos fibers bound in the material. Some samples may contain fibers that are not visible by PLM and can only be detected by electron microscopy techniques. Floor tiles are analyzed as homogeneous materials if insufficient mastic is present or if phases have been cross contaminated.

DataChem Laboratories NVLAP Lab ID: 101917. Laboratory accreditation by the National Institute of Standards and Technology does not in any way constitute approval or endorsement by NVLAP, NIST, or any agency of the federal government..

CINCINNATI OFFICE
4388 GLENDALE-MILFORD ROAD
CINCINNATI, OHIO 45242-3708
513 733-5336, FAX 513 733-5347

WEST COAST OFFICE
11 SANTA YORMA COURT
NOVATO, CALIFORNIA 94945
800 280-8071, FAX 415 893-9469

12/7/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 100-F-48
Set ID: 07-A-6907

| | | | | | |
|--------------------------------|-----------|-----------|-----------|-----------|-----------|
| Client Sample ID: | J16365 | J16366 | J16367 | J16368 | J16369 |
| DCL Sample ID: | 07-40550 | 07-40551 | 07-40552 | 07-40553 | 07-40554 |
| Macroscopic Examination | | | | | |
| Accepted/Rejected: | Accepted | Accepted | Accepted | Accepted | Accepted |
| Homogeneity: | Homog. | Homog. | Homog. | Homog. | Homog. |
| Color: | Brown | Brown | Brown | Grey | Grey |
| Texture: | Compact | Compact | Compact | Compact | Compact |
| Description: | Material | Material | Material | Material | Material |
| Analysis: | PLM | PLM | PLM | PLM | PLM |
| Asbestiform Minerals | | | | | |
| % Chrysotile: | | | | | |
| % Amosite: | | | | | |
| % Crocidolite: | | | | | |
| % Tremolite - Actinolite: | | | | | |
| % Anthophyllite: | | | | | |
| % Total Asbestos: | ND | ND | ND | ND | ND |
| Other Materials | | | | | |
| % Cellulose: | | | | | |
| % Fiberglass: | | | | | |
| % Other Fibers: | | | | | |
| % Resin/Binder: | | | | | |
| % Non Fibrous: | >90 ≤ 100 | >90 ≤ 100 | >90 ≤ 100 | >90 ≤ 100 | >90 ≤ 100 |

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

12/7/07

**DataChem Laboratories
Polarized Light Microscopy
Asbestos Analytical Report**


Client: Washington Closure Hanford
Location: 100-F-48
Set ID: 07-A-6907

| | | |
|--------------------------------|-----------|-----------|
| Client Sample ID: | J163H2 | J163H3 |
| DCL Sample ID: | 07-40555 | 07-40556 |
| Macroscopic Examination | | |
| Accepted/Rejected: | Accepted | Accepted |
| Homogeneity: | Homog. | Homog. |
| Color: | Grey | Red |
| Texture: | Compact | Compact |
| Description: | Material | Material |
| Analysis: | PLM | PLM |
| Asbestiform Minerals | | |
| % Chrysotile: | | |
| % Amosite: | | |
| % Crocidolite: | | |
| % Tremolite - Actinolite: | | |
| % Anthophyllite: | | |
| % Total Asbestos: | ND | ND |
| Other Materials | | |
| % Cellulose: | | |
| % Fiberglass: | | |
| % Other Fibers: | | |
| % Resin/Binder: | | |
| % Non Fibrous: | >90 ≤ 100 | >90 ≤ 100 |

ND = None Detected Trace = <1%

Special Prep Procedures: None.

*Notes: P. O. #: Not Available.


Shawn Smythe
Microscopist

All values are in area percent by visual estimate. The Federal Register Vol. 55 No. 224 Tuesday Nov. 20 1990 Rules and Regulations states "... If the asbestos content is estimated to be less than 10% by a method other than point counting,... (the analysis) be repeated using the point counting technique by PLM." Any of the above samples can be reanalyzed by point counting at the client's request. Wherever possible, separate phases are analyzed and reported individually.

| Washington Closure Hanford | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | RC-030-059 | | Page 1 of 1 | | |
|--|----------------------------------|--|----------------------------------|---|--|---|--|---|--|--|
| Collector HUDSON | | Company Contact MATT PERROTT | | Telephone No. 509-372-9088 | | Project Coordinator KESSNER, JH | | Price Code 9C Data Turnaround 24 Hours | | |
| Project Designation Remaining Sites Confirmation Sampling - Other Solid | | Sampling Location 100-F-48 | | SAF No. RC-030 | | | | | | |
| Ice Chest No. FED EX BOX | | Field Logbook No. EL-1601-2 | | COA COOF 48A#00 | | Method of Shipment FED EX | | | | |
| Shipped To DataChem Laboratories - Cincinnati | | Offsite Property No. A080022 | | Bill of Lading/Air Bill No. EL DSPC | | | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | | | | | | | | | |
| Special Handling and/or Storage | | Preservation | None | | | | | | | |
| | | Type of Container | Whirl Pack | | | | | | | |
| | | No. of Container(s) | 1 | | | | | | | |
| | | Volume | 5g | | | | | | | |
| SAMPLE ANALYSIS | | Asbestos-BULK-EPA | | | | | | | | |
| 07A-6907- | | | | | | | | | | |
| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | |
| J16365 40552 | OTHER SOLID | 12/4/07 | 0720 | X | | | | | | |
| J16366 40551 | OTHER SOLID | 12/4/07 | 0722 | X | | | | | | |
| J16367 40552 | OTHER SOLID | 12/4/07 | 0725 | ^ | | | | | | |
| J16368 40553 | OTHER SOLID | 12/4/07 | 0730 | X | | | | | | |
| J16369 40554 | OTHER SOLID | 12/4/07 | 0732 | X | | | | | | |
| CHAIN OF POSSESSION | | Sign/Print Names | | SPECIAL INSTRUCTIONS | | | | Matrix * | | |
| Relinquished By/Removed From HUDSON | Date/Time 12/4/07 1340 | Received By/Stored In 3728 #28 | Date/Time 12/4/07 1340 | samples from 3728 Ref # 28 3728 Custodian removed samples for shipping on 12 15 07 Sampler unavailable to relinquish | | | | S=Soil SE=Sediment SO=Solid SL=Sludge W=Water O=Oil A=Air DS=Drum Solids DL=Drum Liquids T=Traces W=Wipe L=Liquid V=Vegetation X=Other | | |
| Relinquished By/Removed From 3728 #28 | Date/Time 12-5-07 1115 | Received By/Stored In MM [Signature] | Date/Time 12-5-07 1115 | | | | | | | |
| Relinquished By/Removed From DOCH | Date/Time 12-5-07 1506 | Received By/Stored In FED EX | Date/Time 12/6/07 1317 | | | | | | | |
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time | | | | | | | |
| Relinquished By/Removed From | Date/Time | Received By/Stored In | Date/Time | | | | | | | |
| LABORATORY SECTION | Received By | Title | | Date/Time | | | | | | |
| FINAL SAMPLE DISPOSITION | Disposal Method | Disposed By | | Date/Time | | | | | | |

| Washington Closure Hanford | | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | | RC-030-061 | | Page 1 of 1 | |
|---|-------------|--|-------------|--|--|-------------------------------------|--|---|--|
| Collector Welch-Kocling / <i>Hudson</i> | | Company Contact Matt Perrott | | Telephone No. 372-9088 | | Project Coordinator KESSNER, JH | | Price Code 9C Data Turnaround 24 Hours | |
| Project Designation Remaining Sites Confirmation Sampling - Other Solid | | Sampling Location 100-F-48 | | SAF No. RC-030 | | | | | |
| Ice Chest No. <i>FED EX BOX</i> | | Field Logbook No. EL-1601-2 | | COA C00F48A006 | | Method of Shipment <i>FED EX</i> | | | |
| Shipped To DataChem Laboratories - Cincinnati | | Offsite Property No. <i>A080022</i> | | Bill of Lading/Air Bill No. <i>See OSPC</i> | | | | | |
| POSSIBLE SAMPLE HAZARDS/REMARKS | | Preservation | | None | | | | | |
| Special Handling and/or Storage | | Type of Container | | Whirl Pack | | | | | |
| | | No. of Container(s) | | 1 | | | | | |
| | | Volume | | 5g | | | | | |
| <div style="text-align: center;"> <p>6907</p> <p>SAMPLE ANALYSIS</p> </div> | | Asbestos-BULK-EPA | | | | | | | |
| | | | | | | | | | |
| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | |
| J163H2 <i>40555</i> | OTHER SOLID | <i>12/4/07</i> | <i>0735</i> | <i>X</i> | | | | | |
| J163H3 <i>40556</i> | OTHER SOLID | <i>12/4/0807</i> | <i>0740</i> | <i>X</i> | | | | | |
| J163H4 | OTHER SOLID | <i>9/12/4/07</i> | | | | | | | |
| J163H5 | OTHER SOLID | | | | | | | | |
| J163H6 | OTHER SOLID | <i>BH 12/4/07</i> | | | | | | | |
| CHAIN OF POSSESSION | | Sign/Print Names | | SPECIAL INSTRUCTIONS | | | | | |
| Relinquished By/Removed From <i>BHudson</i> | | Date/Time <i>12/4/07 1340</i> | | Received By/Stored In <i>3728 E-28</i> | | Date/Time <i>12/9/07 1340</i> | | <p>samples from 3728 Ref # <i>38</i>.</p> <p>3728 Custodian removed samples for shipping on <i>12/5/07</i>.</p> | |
| Relinquished By/Removed From <i>3728 E-28</i> | | Date/Time <i>12-5-07 1115</i> | | Received By/Stored In <i>W. S. K. K.</i> | | Date/Time <i>12-5-07 1115</i> | | | |
| Relinquished By/Removed From <i>W. S. K. K.</i> | | Date/Time <i>12-5-07 1500</i> | | Received By/Stored In <i>FED EX</i> | | Date/Time | | | |
| Relinquished By/Removed From | | Date/Time | | Received By/Stored In | | Date/Time | | | |
| Relinquished By/Removed From | | Date/Time | | Received By/Stored In | | Date/Time | | | |
| Relinquished By/Removed From | | Date/Time | | Received By/Stored In | | Date/Time | | | |
| Relinquished By/Removed From | | Date/Time | | Received By/Stored In | | Date/Time | | | |
| LABORATORY SECTION | | Received By | | Title | | Date/Time | | | |
| FINAL SAMPLE DISPOSITION | | Disposal Method | | Disposed By | | Date/Time | | | |